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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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21567 75	90 06/06/2005		EXAMINER	
WELLS ST. JOHN P.S.			KENNEDY, JENNIFER M	
601 W. FIRST AVENUE, SUITE 1300 SPOKANE, WA 99201			ART UNIT	PAPER NUMBER
			2812	
			DATE MAILED: 06/06/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/649,311	BASCERI ET AL.			
Office Action Summary	Examiner	Art Unit			
	Jennifer M. Kennedy	2812			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 14 M	arch 2005.				
	action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ☐ Claim(s) 1-60 is/are pending in the application. 4a) Of the above claim(s) 5-7,10,21-23,36,42,43,45,48 and 51-53 is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-4, 8-9, 11-20, 24-35, 37-41, 44, 46-47, 49-50, 54-60 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9)☐ The specification is objected to by the Examiner.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa				

DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of claims 1-4, 8-9, 11-20, 24-35, 37-41, 44, 46-47, 49-50, and 54-60 in the reply filed on March 14, 2005 is acknowledged.

Claims 5-7, 10, 21-23, 36, 42-43, 45, 48, and 51-53 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected embodiment, there being no allowable generic or linking claim.

Claim Objections

Claim 3 is objected to because of the following informalities: Claim 3 refers to the capacitor electrode forming layer (Applicant's item 1, which they describe as BPSG, an insulative material) to comprise polysilicon. It is believed this is a typographical error and that Applicant intended for the **capacitor electrode layer** to be of polysilicon rather than the capacitor electrode forming layer. Examination has been made accordingly. Appropriate correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Art Unit: 2812

Claims 1, 3, 8-9, 11-17, 24-33. 50, and 54-60 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jang et al. (U.S. Patent No. 6,458,653) in view of Won et al. (U.S. Patent No. 6,667,209).

In re claim 1, Jang et al. disclose the method of forming a capacitor sequentially comprising:

forming an inwardly-tapered-sidewall spacer (116, see column 3, line 60 through column 4, line 51) within an opening of a capacitor electrode forming layer (110);

depositing a first capacitor electrode layer (121) over the inwardly-taperedsidewall spacer within the opening.

Jang et al. disclose the method of forming a lower electrode for a DRAM (see column 5, lines 22-37), but do not explicitly disclose the method of forming the capacitor dielectric and the second capacitor electrode layer. While it is known to complete the fabrication of a DRAM capacitor, a capacitor dielectric and a second capacitor electrode must be formed, the examiner has provided a reference that discloses these steps.

Won et al. disclose the method of forming a capacitor dielectric region (200) and then a second capacitor electrode layer (210) over the first capacitor electrode layer. It would have been obvious to one of ordinary skill in the art at the time the invention was made to form a dielectric layer and a second capacitor electrode in the method of Jang et al. in order to complete the fabrication of the DRAM and create and operable device.

In re claim 3, Jang et al. disclose the method wherein the capacitor electrode layer comprises polysilicon (see column5, lines 7-10)

Art Unit: 2812

In re claim 8, Jang et al. disclose the method wherein the opening comprises sidewalls and the inwardly-tapered-sidewall spacer resides over at least upper portions of the sidewalls (see Figure 6).

In re claim 9, Jang et al. disclose the method wherein the opening comprises sidewalls and the inwardly-tapered-sidewall spacer resides over an entirety of the sidewalls (see Figure 6).

In re claim 11, Jang et al. discloses the method wherein the opening comprises sidewalls and the capacitor electrode forming layer comprises an elevationally outermost surface proximate the opening, the sidewalls including straight linear portions which are angled from normal to the elevationally outermost surface (see Figure 6).

In re claims 12, 13, and 14, Jang et al. disclose the method wherein the the straight linear portions are angled from normal to the elevationally outermost surface (see Figure 6 and column 3, line 60 through column 4, line 32) and disclose a Figure in which the angle is at least 5 degrees or at least 10 degrees. Jang et al. do not explicitly disclose the angle of the sidewall, and therefore, do not disclose the method wherein the angle of the sidewall is at least 15 degrees from normal to the elevationally outermost surface. The examiner notes that Applicant does not teach that the angle of the sidewall solves any stated problem or is for any particular purpose. Therefore, the sidewall angle lacks criticality in the claimed invention and does not produce unexpected or novel results. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to form the sidewall angle at 15 degrees rather than the disclosed 10 degrees since the invention would perform equally well

Art Unit: 2812

when the sidewall is formed at different angles with respect to normal and because it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. *In re Aller*, 105 USPQ 233, MPEP 2144.05 II A.

In re claim 15, Jang et al disclose the method wherein the sidewall spacer comprises laterally inner sidewall portions, the laterally inner sidewall portions including straight linear portions which are angled normal to the elevationally outermost surface (see Figure 6).

In re claim 16, Jang et al. disclose the method further comprising removing at least a portion of the inwardly-tapered-sidewall spacer after the depositing and prior to forming the capacitor dielectric region (see column 4, lines 64-67 or column 5, lines 15-37, column 6, lines 63-65, and Figures 12-13).

In re claim 17, Jang et al. discloses the method of forming a capacitor comprising:

providing a substrate (100) having a capacitor electrode forming layer (110) thereon, the capacitor electrode forming layer having an opening;

forming a sidewall spacer (116) within the opening, the sidewall spacer being laterally thicker at an elevationally outer portion within the opening as compared to an elevationally inner portion within the opening (see Figure 6, 116, see column 3, line 60 through column 4, line 51);

Art Unit: 2812

forming a first capacitor electrode layer (121) within the opening laterally over the sidewall spacer;

and removing at least a portion of the sidewall spacer (see column 4, lines 64-67 or column 5, lines 15-37, column 6, lines 63-65, and Figures 12-13).

Jang et al. disclose the method of forming a lower electrode for a DRAM (see column 5, lines 22-37), but do not explicitly disclose the method of forming the capacitor dielectric and the second capacitor electrode layer. While it is known to complete the fabrication of a DRAM capacitor, a capacitor dielectric and a second capacitor electrode must be formed, the examiner has provided a reference that discloses these steps.

Won et al. disclose the method of forming a capacitor dielectric region (200) and then a second capacitor electrode layer (210) over the first capacitor electrode layer. It would have been obvious to one of ordinary skill in the art at the time the invention was made to form a dielectric layer and a second capacitor electrode in the method of Jang et al. in order to complete the fabrication of the DRAM and create and operable device.

In re claim 24, Jang et al. disclose the method wherein the opening comprises sidewalls and the inwardly-tapered-sidewall spacer resides over at least upper portions of the sidewalls (see Figure 6).

In re claim 25, Jang et al. disclose the method wherein the opening comprises sidewalls and the inwardly-tapered-sidewall spacer resides over an entirety of the sidewalls (see Figure 6).

In re claim 26, Jang et al. discloses the method wherein the opening comprises sidewalls and the capacitor electrode forming layer comprises an elevationally

Art Unit: 2812

outermost surface proximate the opening, the sidewalls including straight linear portions which are angled from normal to the elevationally outermost surface (see Figure 6).

In re claims 27, 28, and 29, Jang et al. disclose the method wherein the the straight linear portions are angled from normal to the elevationally outermost surface (see Figure 6 and column 3, line 60 through column 4, line 32) and disclose a Figure in which the angle is at least 5 degrees or at least 10 degrees. Jang et al. do not explicitly disclose the angle of the sidewall, and therefore, do not disclose the method wherein the angle of the sidewall is at least 15 degrees from normal to the elevationally outermost surface. The examiner notes that Applicant does not teach that the angle of the sidewall solves any stated problem or is for any particular purpose. Therefore, the sidewall angle lacks criticality in the claimed invention and does not produce unexpected or novel results. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to form the sidewall angle at 15 degrees rather than the disclosed 10 degrees since the invention would perform equally well when the sidewall is formed at different angles with respect to normal and because it has been held that where the general conditions of a claim are disclosed in the prior art. discovering the optimum or workable ranges involves only routine skill in the art. In re Aller, 105 USPQ 233, MPEP 2144.05 II A.

In re claim 30, Jang et al disclose the method wherein the sidewall spacer comprises laterally inner sidewall portions, the laterally inner sidewall portions including straight linear portions which are angled normal to the elevationally outermost surface (see Figure 6).

Art Unit: 2812

In re claims 31 and 32, Jang et al. disclose the method further comprising removing at least a majority or substantially all of the sidewall spacer (column 5, lines 15-37, column 6, lines 63-65, and Figures 12-13).

In re claim 33, Jang et al. discloses the method of forming a capacitor comprising:

forming an opening within a capacitor electrode forming layer (110) over a substrate, the opening comprising sidewalls;

depositing a spacing layer (116) over the capacitor electrode forming layer to within the opening over at least upper portions of the sidewalls, the depositing forming the spacing layer to be laterally thicker at an elevationally outer portion within the opening as compared to an elevationally inner portion within the opening (see Figure 6, 116, see column 3, line 60 through column 4, line 51);

anisotropically etching the spacing layer to form a spacer within the opening, the spacer being laterally thicker at an elevationally outer portion within the opening as compared to an elevationally inner portion within the opening (see column 4, line 64 through column 5, line 3);

forming a first capacitor electrode layer (121) within the opening laterally over the spacer; and

after forming the first capacitor electrode layer, removing at least a portion of the spacer (see column 4, lines 64-67 or column 5, lines 15-37, column 6, lines 63-65, and Figures 12-13).

Art Unit: 2812

Jang et al. disclose the method of forming a lower electrode for a DRAM (see column 5, lines 22-37), but do not explicitly disclose the method of forming the capacitor dielectric and the second capacitor electrode layer. While it is known to complete the fabrication of a DRAM capacitor, a capacitor dielectric and a second capacitor electrode must be formed, the examiner has provided a reference that discloses these steps.

Won et al. disclose the method of forming a capacitor dielectric region (200) and then a second capacitor electrode layer (210) over the first capacitor electrode layer. It would have been obvious to one of ordinary skill in the art at the time the invention was made to form a dielectric layer and a second capacitor electrode in the method of Jang et al. in order to complete the fabrication of the DRAM and create and operable device.

In re claim 50, Jang et al. disclose the method wherein the opening comprises sidewalls and the inwardly-tapered-sidewall spacer resides over an entirety of the sidewalls (see Figure 6).

In re claim 54, Jang et al. discloses the method wherein the opening comprises sidewalls and the capacitor electrode forming layer comprises an elevationally outermost surface proximate the opening, the sidewalls including straight linear portions which are angled from normal to the elevationally outermost surface (see Figure 6).

In re claims 55, 56, and 57, Jang et al. disclose the method wherein the the straight linear portions are angled from normal to the elevationally outermost surface (see Figure 6 and column 3, line 60 through column 4, line 32) and disclose a Figure in which the angle is at least 5 degrees or at least 10 degrees. Jang et al. do not explicitly disclose the angle of the sidewall, and therefore, do not disclose the method wherein

Art Unit: 2812

the angle of the sidewall is at least 15 degrees from normal to the elevationally outermost surface. The examiner notes that Applicant does not teach that the angle of the sidewall solves any stated problem or is for any particular purpose. Therefore, the sidewall angle lacks criticality in the claimed invention and does not produce unexpected or novel results. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to form the sidewall angle at 15 degrees rather than the disclosed 10 degrees since the invention would perform equally well when the sidewall is formed at different angles with respect to normal and because it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. *In re Aller*, 105 USPQ 233, MPEP 2144.05 II A.

In re claim 58, Jang et al disclose the method wherein the sidewall spacer comprises laterally inner sidewall portions, the laterally inner sidewall portions including straight linear portions which are angled normal to the elevationally outermost surface (see Figure 6).

In re claims 59 and 60, Jang et al. disclose the method further comprising removing at least a majority or substantially all of the sidewall spacer (column 5, lines 15-37, column 6, lines 63-65, and Figures 12-13).

Art Unit: 2812

Claims 1, 2, 17, 18, 33, and 35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Oh (U.S. Patent Appl. 2003/0001268) in view of Jang et al. (U.S. Patent No. 6,458,653)

In re claim 1, Oh et al. disclose the method of forming a capacitor sequentially comprising:

forming an sidewall spacer (260) within an opening of a capacitor electrode forming layer (250);

depositing a first capacitor electrode layer (270) over the sidewall spacer within the opening; and

forming a capacitor dielectric region (275) and then a second capacitor electrode (280) layer over the first capacitor electrode layer.

Oh et al. do not disclose the method wherein the sidewall spacer is inwardly-tapered. Jang et al. disclose the method of forming an inwardly-tapered sidewall spacer. It would have been obvious to one of ordinary skill in the art at the time the invention was made to form the spacer of Oh et al. with the method of Jang et al. to form an inwardly-tapered sidewall spacer, because as Jang et al. teach, the method improves the etch slope and profiled for the region in which etch skew occurs, and thus prevents twin bit failure caused between cylinder-shaped lower electrodes.

In re claim 2, Oh et al. disclose the method in which the inwardly-tapered sidewall spacer comprises TiN.

In re claim 17, Oh et al. disclose the method of forming a capacitor comprising:

Art Unit: 2812

providing a substrate (100) having a capacitor electrode forming layer (250) thereon, the capacitor electrode forming layer having an opening;

forming a sidewall spacer (260) within the opening,

forming a first capacitor electrode layer (270) within the opening laterally over the sidewall spacer;

and removing at least a portion of the sidewall spacer (see [0049]) and thereafter forming a capacitor dielectric region (275) and then a second capacitor electrode (280) layer over the first capacitor electrode layer (see Figure 17, 18).

Oh et al. do not disclose the method wherein the sidewall spacer being laterally thicker at an elevationally outer portion within the opening as compared to an elevationally inner portion within the opening. Jang et al. disclose the method wherein the sidewall spacer being laterally thicker at an elevationally outer portion within the opening as compared to an elevationally inner portion within the opening (see Figure 6, 116, see column 3, line 60 through column 4, line 51). It would have been obvious to one of ordinary skill in the art at the time the invention was made to form the sidewall spacer being laterally thicker at an elevationally outer portion within the opening as compared to an elevationally inner portion within the opening, because as Jang et al. teach, the method improves the etch slope and profiled for the region in which etch skew occurs, and thus prevents twin bit failure caused between cylinder-shaped lower electrodes.

In re claim 18, Oh et al. disclose the method in which the inwardly-tapered sidewall spacer comprises TiN.

Art Unit: 2812

In re claim 33, Jang et al. discloses the method of forming a capacitor comprising:

forming an opening within a capacitor electrode forming layer (250) over a substrate, the opening comprising sidewalls;

depositing a spacing layer (260) over the capacitor electrode forming layer to within the opening over at least upper portions of the sidewalls;

anisotropically etching the spacing layer to form a spacer within the opening (see [0049]);

forming a first capacitor electrode layer (270) within the opening laterally over the spacer; and

after forming the first capacitor electrode layer, removing at least a portion of the spacer (see [0049]) and thereafter forming a capacitor dielectric region (275) and then a second capacitor electrode (280) layer over the first capacitor electrode layer (see Figure 17, 18).

Oh et al. do not disclose the method wherein the sidewall spacer being laterally thicker at an elevationally outer portion within the opening as compared to an elevationally inner portion within the opening. Jang et al. disclose the method wherein the sidewall spacer being laterally thicker at an elevationally outer portion within the opening as compared to an elevationally inner portion within the opening (see Figure 6, 116, see column 3, line 60 through column 4, line 51). It would have been obvious to one of ordinary skill in the art at the time the invention was made to form the sidewall spacer being laterally thicker at an elevationally outer portion within the opening as

Art Unit: 2812

compared to an elevationally inner portion within the opening, because as Jang et al. teach, the method improves the etch slope and profiled for the region in which etch skew occurs, and thus prevents twin bit failure caused between cylinder-shaped lower electrodes.

In re claim 35, Oh et al. disclose the method in which the inwardly-tapered sidewall spacer comprises TiN.

Claim 34 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jang et al. (U.S. Patent No. 6,458,653) and Won et al. (U.S. Patent No. 6,667,209) in view of Deboer et al (U.S. Patent Appl. 2002/0064934).

Jang et al. and Won et al. disclose the method as claimed and rejected above, including the method of forming the capacitor electrode forming layer of a TEOS oxide, but do not disclose the method wherein the capacitor electrode forming layer comprises borophosphosilicate glass (BPSG). Deboer et al. disclose the method of utilizing either BPSG and TEOS as an interlayer dielectric layer (see [0036] and [0038]). It would have been obvious to one of ordinary skill in the art at the time the invention was made to form the interlayer dielectric of the combined Jang et al. and Won et al. with BPSG because as Deboer et al. teaches, BPSG and TEOS oxide are interchangeable in the art for interlayer dielectrics and since it has been held that the selection of a known material based on its suitability for its intended use supported a prima facie obviousness determination in Sinclair & Carroll Co. v. Interchemical Corp., 325 U.S. 327, 65 USPQ 297 (1945). See also In re Leshin, 227 F.2d 197, 125 USPQ 416 (CCPA 1960).

Art Unit: 2812

Claims 44, 46, 47, and 49 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jang et al. (U.S. Patent No. 6,458,653), Won et al. (U.S. Patent No. 6,667,209), and Deboer et al (U.S. Patent Appl. 2002/0064934) in view of Yieh et al. (U.S. Patent No. 6,599,574).

The combined Jang et al. Won et al. and Deboer et al disclose the method as claimed and rejected above, but do not disclose the method of forming the spacing layer with a pressure greater than 10 Torr or 20 Torr and temperature above 600 or 700 degrees Celsius. Yieh et al. disclose the method of forming a BPSG layer at a pressure greater than 10 Torr or 20 Torr and a temperature above 600 or 700 degrees Celsius (see column 14, lines 30-45). It would have been obvious to one of ordinary skill in the art at the time the invention was made to form the BPSG layer at these conditions, because as Yieh et al. teach, the method allows for formation of a BPSG layer with improved film uniformity, higher deposition rate, superior gap fill/reflow capability and smoother surface morphology (see abstract).

Claims 4, 20, and 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Oh (U.S. Patent Appl. 2003/0001268) and Jang et al. (U.S. Patent No. 6,458,653) in view of Wofford et al. (U.S. Patent No. 6,686,237).

The combined Oh and Jang et al. disclose the method as claimed and rejected, including removing the TiN spacer layer, but do not disclose the method of removing the spacer layer by exposing the spacer to a mixture comprising H₂SO₄ and H₂O₂ the mixture having a weight ratio of H₂SO₄ to H₂O₂ of about 2:1.

Application/Control Number: 10/649,311 Page 16

Art Unit: 2812

Wofford et al. discloses the method of selectively etching titanium nitride with a mixture comprising H_2SO_4 and H_2O_2 the mixture having a weight ratio of H_2SO_4 to H_2O_2 of about 2:1 (see column 3, lines 25-40). It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize the etchant of Wofford et al. in the combined Oh and Jeng et al. et al. in order to selectively remove the titanium nitride spacer.

Claims 19, and 38-41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Oh (U.S. Patent Appl. 2003/0001268) and Jang et al. (U.S. Patent No. 6,458,653) in view of Wang et al. (U.S. Patent No. 6,214,714).

Oh and Jang et al. disclose the method as claimed and rejected above, but do not disclose the method of forming the titanium nitride wherein TiCl₄ and NH₃ are flowed to the substrate simultaneously at a volumetric ratio of TiCl₄ to NH₃ of about 1:1. Wang et al. disclose the method of forming the titanium nitride wherein TiCl₄ and NH₃ are flowed to the substrate simultaneously at a volumetric ratio of TiCl₄ to NH₃ of about 1:1 (see column 6, lines 5-20). It would have been obvious to one of ordinary skill in the art at the time the invention was made to form the titanium nitride by the method of Wang et al., with the volumetric ratio of TiCl₄ to NH₃ of about 1:1 because it allows for good step coverage.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Lim et al. (U.S. Patent No. 6,806,135) discusses the volumetric ratio of TiCl₄ to NH₃ allowing for greater step coverage.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer M. Kennedy whose telephone number is (571) 272-1672. The examiner can normally be reached on Mon.-Fri. 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael S. Lebentritt can be reached on (571) 272-1873. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner Art Unit 2812

imk